

CLAIMS

The invention claimed is:

1. A metal/magnetic security device comprising:
 - (a) a carrier substrate having a length; and
 - 5 (b) security detection features disposed on at least one surface of the carrier substrate, wherein the security detection features comprise:
 - (i) an optionally repeating pattern of:
discrete metal/magnetic indicia; and
discrete metal or metal-dot formed indicia,
 - 10 (ii) optionally, at least one metal strip extending along the length of the carrier substrate, and
 - (iii) optionally, a plurality of metal dots formed on at least one surface of the carrier substrate.
2. The metal/magnetic security device of claim 1, wherein the carrier
15 substrate is a transparent carrier film.
3. The metal/magnetic security device of claim 1, wherein the discrete metal/magnetic indicia comprise at least one of geometric shapes, letters, numbers, alphanumeric characters and symbols.
4. The metal/magnetic security device of claim 1, wherein the discrete
20 metal or metal-dot formed indicia comprise at least one of letters, numbers, alphanumeric characters, symbols and metal or metal-dot regions which surround and define clear indicia.
5. The metal/magnetic security device of claim 1, wherein the discrete metal/magnetic indicia and the discrete metal or metal-dot formed indicia form a repeating
25 pattern extending along the length of at least one surface of the carrier substrate.
6. The metal/magnetic security device of claim 1, wherein the security detection features further comprise at least one metal strip extending along the length of at least one surface of the carrier substrate.
7. The metal/magnetic security device of claim 6, wherein at least a
30 portion of at least one metal/magnetic indicia overlaps at least a portion of at least one metal strip.

8. The metal/magnetic security device of claim 6, wherein the security detection features further comprise a first and a second metal strip extending longitudinally along a top and a bottom region of at least one surface of the carrier substrate.

5 9. The metal/magnetic security device of claim 1, wherein the security detection features further comprise a plurality of metal dots located on remaining metal-free regions of at least one surface of the carrier substrate.

10 10. The metal/magnetic security device of claim 1, wherein the metal/magnetic indicia are multi-layer, metal/magnetic indicia which include a metal layer disposed on the carrier substrate, and a magnetic layer disposed on the metal layer.

11. The metal/magnetic security device of claim 10, wherein the multi-layer, metal/magnetic indicia include a second metal layer disposed on the magnetic layer.

12. The metal/magnetic security device of claim 1, wherein the discrete metal or metal-dot formed indicia are formed by solid metal.

15 13. The metal/magnetic security device of claim 1, wherein the discrete metal or metal-dot formed indicia are formed by a plurality of closely spaced metal dots.

14. A metal/magnetic security device comprising:

(a) a carrier substrate having a length; and

(b) security detection features disposed on at least one surface
20 of the carrier substrate, wherein the security detection features comprise:

(i) an optionally repeating pattern of:

discrete metal/magnetic indicia in the form of
geometric shapes; and

25 discrete metal or metal-dot formed indicia, wherein the indicia comprise at least one of letters, numbers, alphanumeric characters and symbols,

(ii) at least one metal strip extending along the length of
the carrier substrate, and

(iii) optionally, a plurality of metal dots formed on at
30 least one surface of the carrier substrate.

15. The metal/magnetic security device of claim 14, wherein the carrier substrate is a transparent carrier film.

16. The metal/magnetic security device of claim 14, wherein the discrete metal/magnetic indicia and the discrete metal or metal-dot formed indicia form a repeating pattern extending along the length of the carrier substrate.

17. The metal/magnetic security device of claim 14, wherein at least a
5 portion of at least one metal/magnetic indicia overlaps at least a portion of at least one metal strip.

18. The metal/magnetic security device of claim 14, wherein the security detection features comprise a first and a second metal strip extending longitudinally along a top and a bottom region of at least one surface of the carrier
10 substrate.

19. The metal/magnetic security device of claim 14, wherein the security detection features further comprise a plurality of metal dots located on remaining metal-free regions of at least one surface of the carrier substrate.

20. The metal/magnetic security device of claim 14, wherein the
15 metal/magnetic indicia are multi-layer, metal/magnetic indicia which include a metal layer disposed on the carrier substrate, and a magnetic layer disposed on the metal layer.

21. The metal/magnetic security device of claim 20, wherein the multi-layer, metal/magnetic indicia include a second metal layer disposed on the magnetic layer.

22. The metal/magnetic security device of claim 14, wherein the
20 discrete metal or metal-dot formed indicia are formed by solid metal.

23. The metal/magnetic security device of claim 14, wherein the discrete metal or metal-dot formed indicia are formed by a plurality of closely spaced metal dots.

24. A metal/magnetic security device comprising:
25 (a) a carrier substrate having a length; and
(b) security detection features disposed on at least one surface of the carrier substrate, wherein the security detection features comprise an optionally repeating pattern of:

(i) discrete metal/magnetic indicia, wherein the indicia
30 comprise at least one of letters, numbers, alphanumeric characters and symbols; and

(ii) discrete metal or metal-dot formed indicia in the form of metal or metal-dot regions which surround and define clear indicia.

5 25. The metal/magnetic security device of claim 24, wherein the carrier substrate is a transparent carrier film.

26. The metal/magnetic security device of claim 24, wherein the discrete metal/magnetic indicia and the discrete metal or metal-dot formed indicia form a repeating pattern extending along the length of the carrier substrate.

10 27. The metal/magnetic security device of claim 24, wherein the metal/magnetic indicia are multi-layer, metal/magnetic indicia which include a first metal layer disposed on the carrier substrate and a magnetic layer disposed on the first metal layer.

15 28. The metal/magnetic security device of claim 27, wherein the multi-layer, metal/magnetic indicia further include a second metal layer disposed on the magnetic layer.

29. The metal/magnetic security device of claim 24, wherein the discrete metal or metal-dot formed indicia are formed by solid metal.

20 30. The metal/magnetic security device of claim 24, wherein the discrete metal or metal-dot formed indicia are formed by a plurality of closely spaced metal dots.